PORTAL
THE ACM DIGITAL LIBRARY

US Patent & Trademark Office

Try the *new* Portal design
Give us your opinion after using it.

Search Results

Nothing Found

Your search for the *Phrase* **data <and> migration<AND>((galaxy <and> backup <and> recovery))**
did not return any results.
To search for *terms* separate them with **AND** or **OR**.
Click on the suggested options:

data AND <and> AND migration<AND>((galaxy AND <and> AND backup AND <and> AND recovery) AND)

data OR OR migration((galaxy OR OR backup OR OR recovery) OR)

To search for names try using only the last or first name.

You can try to rerun it within the Portal.

You may revise it and try your search again below or click advanced search for more options.

```
data <and> migration <and> backup
<and> recovery
□
```

SEARCH [**Advanced Search**] [**Search Help/Tips**]

Complete Search Help and Tips

The following characters have specialized meaning:

Special Characters	Description
, ( ) [	These characters end a text token.
= > < !	These characters end a text token because they signify the start of a field operator. (! is special: != ends a token.)
` @ \Q < { [!	These characters signify the start of a delimited token. These are terminated by the end character associated with the start character.

> home   out   > feedback   > login

US Patent & Trademark Office

Try the *new* Portal design
Give us your opinion after using it.

Citation

International Conference on Management of Data and Symposium on Principles of Database Systems
>archive
Proceedings of the 1994 ACM SIGMOD international conference on Management of data >toc
1994 , Minneapolis, Minnesota, United States

ARIES/CSA: a method for database recovery in client-server architectures
> Also published in ...

Authors
 C. Mohan
 Inderpal Narang

> full text   > abstract   > index terms   > peer to peer

> Discuss   > Similar   > Review this Article   ❧Save to Binder

> BibTex Format

↑ FULL TEXT: ⚷ Access Rules

📄 pdf 1.33 MB

↑ ABSTRACT

This paper presents an algorithm, called ARIES/CSA (Algorithm for Recovery and Isolation Exploiting Semantics for Client-Server Architectures), for performing recovery correctly in client-server (CS) architectures. In CS, the server manages the disk version of the database. The clients, after obtaining database pages from the server, cache them in their buffer pools. Clients perform their updates on the cached pages and produce log records. The log records are buffered locally in virtual storage and later sent to the single log at the server. ARIES/CSA supports a write-ahead logging (WAL), fine-granularity (e.g., record) locking, partial rollbacks and flexible buffer management policies like steal and no-force. It

does not require that the clocks ● the clients and the server be synchron ●d. Checkpointing by the server and the clients allows for flexible and easier recovery.

↑ INDEX TERMS

Primary Classification:
  H. Information Systems
    ↳ **H.2** DATABASE MANAGEMENT
      ↳ **H.2.2** Physical Design
        ↳ **Subjects:** Recovery and restart

Additional Classification:
  H. Information Systems
    ↳ **H.2** DATABASE MANAGEMENT
      ↳ **H.2.4** Systems
        ↳ **Subjects:** Transaction processing
      ↳ **H.2.7** Database Administration
        ↳ **Subjects:** Logging and recovery

General Terms:
Algorithms, Design, Performance

↑ Peer to Peer - Readers of this Article have also read:

- Evaluating topic-driven web crawlers
  Proceedings of the 24th annual international ACM SIGIR conference on Research and development in information retrieval
  Filippo Menczer , Gautam Pant , Padmini Srinivasan , Miguel E. Ruiz

- Partitioning-based standard-cell global placement with an exact objective
  Proceedings of the 1997 international symposium on Physical design
  Dennis J.-H. Huang , Andrew B. Kahng

- Information systems strategy and implementation: a case study of a building society
  ACM Transactions on Information Systems (TOIS) 12, 2
  G. Walsham , T. Waema

- Algorithmic mechanism design (extended abstract)
  Proceedings of the thirty-first annual ACM symposium on Theory of computing
  Noam Nisan , Amir Ronen

- We Talk to Everybody
  Linux Journal 2000, 74es
  Marjorie Richardson , Jason Schumaker , David Penn

↑ This Article has also been published in:

- ACM SIGMOD Record
  Volume 23 , Issue 2 (June 1994)

P⊗RTAL

THE ACM DIGITAL LIBRARY

Try the *new* Portal design
Give us your opinion after using it.

Citation

ACM SIGSOFT Software Engineering Notes >archive
Volume 26 , Issue 2 (March 2001) >toc

COLUMN: Columns >toc

Risks to the public in computers and related systems

Author
Peter G. Neumann SRI International EL-243, Menlo Park CA

Publisher

doi> http://doi.acm.org/10.1145/505776.505778 (Use this link to Bookmark this page)

> full text   > peer to peer

> Discuss   > Similar   > Review this Article   ❤ Save to Binder

> BibTex Format

↑ FULL TEXT: 🔑 Access Rules

📄 pdf 833 KB

↑ Peer to Peer - Readers of this Article have also read:

- Data structures for quadtree approximation and compression
  Communications of the ACM 28, 9
  Hanan Samet

- The state of the art in automating usability evaluation of user interfaces
  ACM Computing Surveys (CSUR) 33, 4

- A lifecycle process for the effective reuse of commercial off-the-shelf (COTS) software
  Proceedings of the 1999 symposium on Software reusability
  Christine L. Braun

- A catalog of techniques for resolving packaging mismatch
  Proceedings of the 1999 symposium on Software reusability
  Robert DeLine

- Using adapters to reduce interaction complexity in reusable component-based software development
Proceedings of the 1999 symposium on Software reusability
David Rine , Nader Nada , Khaled Jaber